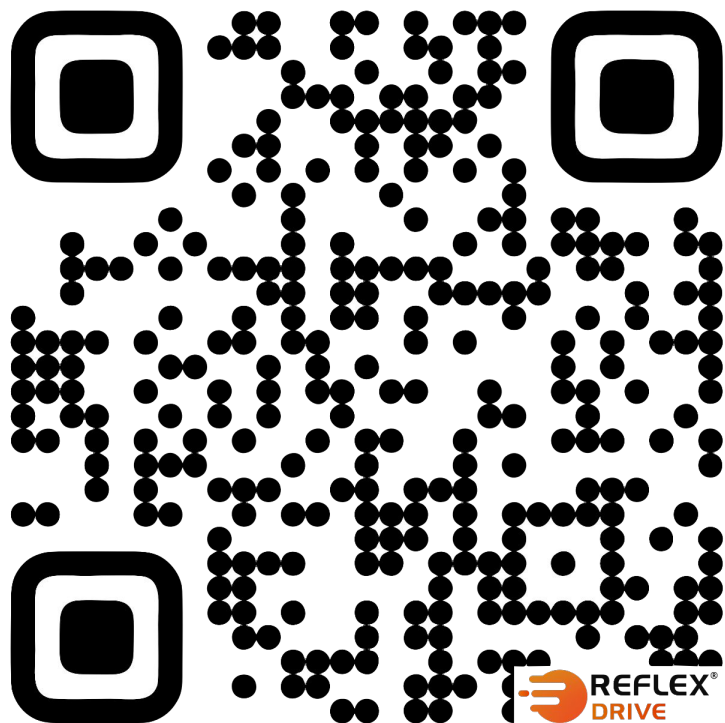




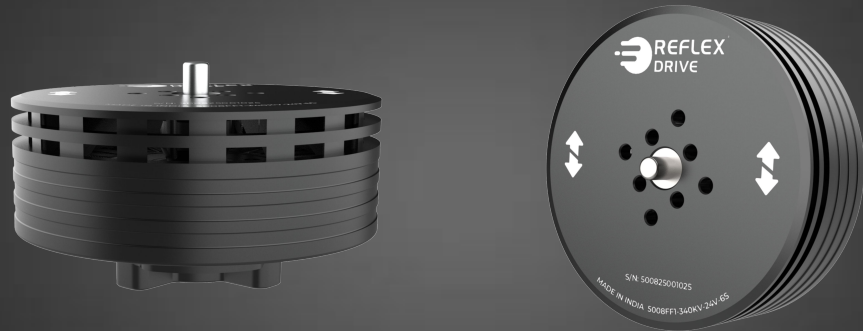
MADE IN INDIA 



RD 5008

UAV BLDC MOTOR





6S
BATTERY RATING

340KV
KV RATING

135gm
OPTIMIZED WEIGHT

3.3kg
MAX THRUST

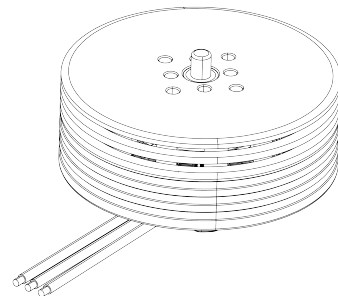
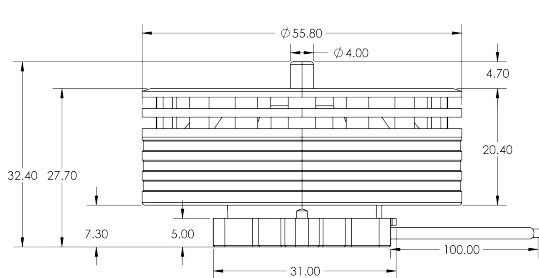
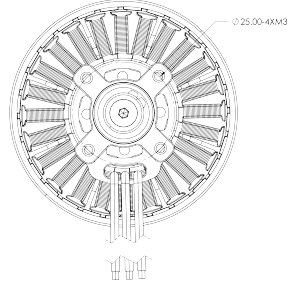
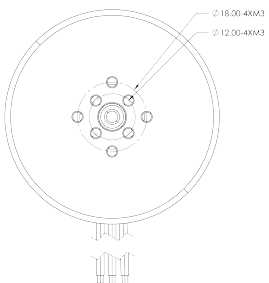
RD 5008

UAV BLDC MOTOR

- RD 5008 Brushless Motor is a lightweight and efficient brushless outrunner motor with a KV rating of 340KV, engineered to meet the rigorous demands of quadcopters and VTOL applications.
- Made in India, it features advanced cooling for reliable performance and durability under high-thrust conditions. The motor is designed for seamless compatibility with 15-inch to 18-inch propellers.

PRODUCT DRAWING

Note: All dimensions in mm



Specifications

Product name	RD 5008 UAV BLDC MOTOR
Country of Origin	India
Motor Type	Outrunner
KV Rating	340 KV
Maximum Thrust	3.3 KG
Stator Poles / Magnet Poles	24/28
No load Current	1.5 A
Motor Efficiency	90.99 %
Weight (Incl. Wire)	135 grams
Voltage Range	4-6S
Peak Current (15 sec)	51 A
Peak Current (30 sec)	1224 W
Motor Size	Ø55.80 mm x 33.00 mm
Stator Size	Ø50 mm x 08 mm
Cable Length	100 mm
Cable Type	16 AWG
Magnet Temperature Rating	150 °C
Shaft Diameter	Ø4 mm
Winding Material	100% Copper
IP Rating	Ip54
Maximum Operating Temperature	60 °C
Recommended Propeller	1760 (Folding)
Production Status	Production

Note : MAXIMUM THRUST MAY DEPEND ON BATTERY LEVEL , PROPELLER TYPE , AIR PRESSURE AND OTHER CONDITIONS.

Multi-copter design recommendations :

Recommended Propeller: 1760 (Folding)

Recommended ESC: RD D Pro Series , 2S-6S, 40A

Quad-copter : Maximum take-off weight for the drone: 7.26 KG

Hex-copter : Maximum take-off weight for the drone: 11.78 KG

Oct-copter : Maximum take-off weight for the drone: 15.42 KG

MOTOR : RD 5008 Motor 340KV
ESC : RD D-Pro ESC ,40A
Propeller : RD 1760 Folding Prop
Power Source : 6S LiPO

Throttle % (1000-2000)	Servo	Voltage (V)	Current (A)	Power (W)	RPM	Thrust (g)	Efficiency (g/w)
0.00%	1100	25.11 V	.12 A	2.9	0	0	0.00
6.30%	1150	25.11 V	.14 A	3.6	830	60	16.67
12.50%	1200	25.11 V	.39 A	9.9	1324	152	15.35
18.80%	1250	25.09 V	.76 A	19.0	1768	280	14.74
25.00%	1300	25.07 V	1.25 A	31.3	2160	430	13.74
31.30%	1350	25.05 V	1.93 A	48.3	2545	585	12.11
37.50%	1400	25.04 V	2.86 A	71.8	2928	780	10.86
43.80%	1450	25.00 V	4.29 A	107.4	3361	1034	9.63
50.00%	1500	24.93 V	5.90 A	147.1	3746	1394	9.48
56.30%	1550	24.89 V	7.78 A	193.9	4101	1692	8.73
62.50%	1600	24.84 V	9.72 A	241.6	4416	1947	8.06
68.80%	1650	24.81 V	11.98 A	297.4	4716	2088	7.02
75.00%	1700	24.72 V	14.27 A	352.9	5001	2489	7.05
81.30%	1750	24.68 V	17.07 A	421.5	5255	2814	6.68
87.50%	1800	24.58 V	19.63 A	482.6	5506	3018	6.25
93.80%	1850	24.51 V	22.52 A	552.1	5753	3310	6
100.00%	1900	24.33 V	26.94 A	655.6	6043	3570	5.45

MOTOR : RD 5008 Motor 340KV
ESC : RD D-Pro ESC ,40A
Propeller : P18*6.1 Prop
Power Source : 6S LiPO

Throttle %	Servo	Voltage (V)	Current (A)	Power (W)	RPM	Thrust (g)	Efficiency (g/w)
17.80%	1280	25.09 V	0.59 A	14.9	1464	207.26	13.91
21.30%	1300	25.09 V	0.81 A	20.4	1680	281.96	13.82
24.80%	1320	25.09 V	1.07 A	26.7	1892	365.48	13.69
28.30%	1340	25.07 V	1.4 A	34.9	2129	473.98	13.58
35.30%	1380	25.04 V	2.3 A	57.9	2561	691.46	11.94
38.80%	1400	25.04 V	2.82 A	70.9	2738	850.1	11.99
45.80%	1440	25.00 V	4.18 A	106.7	3141	1073	10.06
49.30%	1460	24.97 V	5.05 A	126.2	3367	1267.88	10.05
52.80%	1480	24.93 V	6.07 A	153.2	3591	1432.62	9.35
59.80%	1520	24.88 V	8.1 A	201.1	3954	1836.01	9.35
66.80%	1560	24.81 V	10.54 A	263.1	4287	2271.92	9.13
70.30%	1580	24.81 V	11.90 A	284.6	4453	2556.44	8.64
77.30%	1620	24.72 V	14.56 A	366.7	4784	2691.32	8.98
80.80%	1640	24.68 V	15.98 A	384.6	4984	3009.47	734
87.80%	1680	24.63 V	19.33 A	473	5366	3511.34	7.82
94.80%	1720	24.47 V	24.38 A	591.7	5487	3792.57	7.42
98.30%	1740	24.38 V	26.34 A	642	5751	3910.57	6.09
100.00%	1750	23.75 V	30 A	712.5	6035	4205.57	5.9

NOTE : Performance data tested at approximately 35°C and 123 m above sea level in Lucknow, India.

Test Condition Notes :

- > Ambient Temperature : Approximately 35°C.
- > Altitude: 123 meters above sea level (Lucknow, India)